



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 7**

11201 Renner Boulevard  
Lenexa, Kansas 66219

**MAR 17 2017**

**MEMORANDUM**

**SUBJECT:** Revised QAPP Former Waterloo Industries Facility, Waterloo, Iowa – Approved with Conditions

**FROM:** *Diane Harris*  
Diane Harris, Regional Quality Assurance Manager  
Environmental Sciences and Technology Division

**TO:** Dan Gravatt, EPA Project Manager  
Resource Conservation and Recovery Act Corrective Action and Permits Section  
Waste Remediation & Permitting Branch  
Air and Waste Management Division

The review of the subject document prepared by Environmental Resources Management, Inc., revised January 30, 2017, has been completed according to the "EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations," EPA QA/R-5 March 2001. The document was also reviewed against the comments outlined in the previous Quality Assurance review memo dated January 9, 2017 (R7QAO Document No. 2017047). This document was reviewed along with the Remedy Implementation Plan (RIP), revised February 8, 2017, submitted with this review, as it pertains to the Quality Assurance Project Plan (QAPP).

Based on the comment below, the document is approved with conditions. The document was found to be incomplete in addressing some key areas to the extent of potentially jeopardizing the quality of the data. These areas are fully described in this review memorandum as critical comments and can be adequately addressed by incorporation into the document but without resubmission. The document would not be approved without addressing these issues.

**Critical Comments**

1. Table 2, Data Quality Objectives and Table 3, Minimum Data Package Contents and Hierarchal Bookmark Structure: Even though Tables 1 and 4 were updated in the revision, Table 2 in Step 3 and Table 3 still do not include specific information as it pertains to the soil vapor and air samples. The specific information needs to be addressed in the tables, as applicable.

If you have any questions, please contact Rebecca Estep, Lead Reviewer, at x7598 or me at x7258.

R7QAO Document Number: 2017113

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